

Deltronic



Battery operated Optical Smoke Alarm Model X10 Art No. 10346

10 year Lithium Battery Built in

Important: Read all of the following instruction before installing of the devices begins! It is important to achieve the desired results.

Product Overview

All Deltronic Photoelectric type of smoke alarms are approved to EN14604-2005, the most recent and rigorous European Smoke Alarm Standard. The unique X-Profile Photoelectric sensing chamber is particularly sensitive to slow smouldering fires typically originating in living rooms, bedrooms and hallways whilst being highly resistant to nuisance alarms. The alarm and sealed-in battery are guaranteed for the 10-Year life of the product, including routine weekly testing.

Product Features:

- Sealed in 10 year lithium battery.
- Approved to EN14604:2005, Smoke Alarms
- Unique X-Profile chamber with insect screen.
- With bespoke software, maximizes the detection ability, reduce false alarms and ad Alarm Silence operations.
- Power automatically switched on as a detector is installed onto its mounting plate and automatically switched off when detector is removed.
- Red LED flashes approximately every minute confirming unit is receiving power and ready to detect fire conditions. (Quiescent Mode)
- Low Battery Warning - End of life, alarm gives one beep every minute with a silence option. Silence the audible warning for ten hours by pressing the test button, thus avoiding removing the alarm from its mounting plate. The alarm can then be replaced when convenient the following day or so.
- Extra Large Test Button for ease of use, tests sensitivity, circuitry, battery and alarm sounder.
- Loud 85 Decibel Piezo Electric Alarm - Automatically resets when hazardous condition has passed and the detector chamber is clear from smoke.
- Alarm Silence - Silence your smoke alarm by momentarily pressing the test button. Ideal in non emergency situations where nuisance alarms may have been created, for example, by steam. The red light flashes every 12 seconds to remind you that the smoke alarm has been silenced and will automatically reset to quiescent mode with in 10 minutes.
- Approved for use in Leisure Accommodation Vehicles.

Choice and Location of Alarms

If fire detectors are ionizing or optical is less important, both variants are alarming at an early stage, the important thing is that you have fire detectors that work and that they are checked frequently.

Optical Smoke Alarms

Are best for sensing smouldering fires and are there fore best suited for rooms containing furniture, bedding and clothes such as escape routes, lounges, bedrooms and other living rooms.

Heat Alarms

Are most suitable for kitchens, boiler rooms, workshops and garages where dust, dirt and moisture would contribute to nuisance alarms.

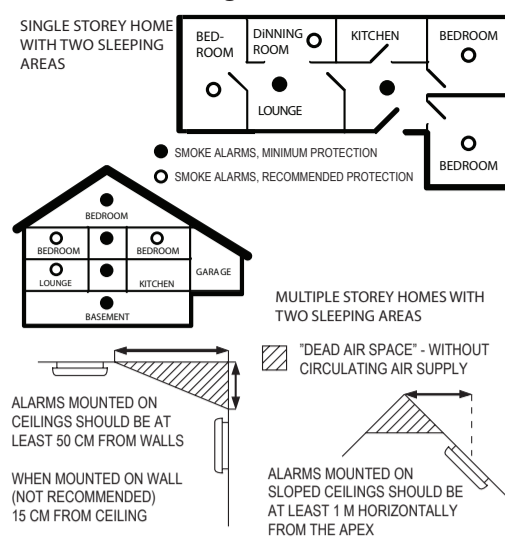
NOTE - Heat alarms should not be used in escape routes and should always be interlinked or installed together with smoke alarms.

Ionisation type smoke alarms

Are best at detecting fast flaming fires such as loose burning paper, however, their operation can be significantly delayed the farther away they are from the source of the fire and smoke. Unless there is a significant risk of fast, clean burning fires in a particular area, photoelectric smoke alarms are recommended for living accommodation where most fires originate in electrical equipment and smouldering material such as furniture, clothing, curtains and carpets.

NOTE: Heat alarms should NOT be used on walls and in escape routes and should always be interlinked or used together with smoke alarms. All alarms should be interconnected if possible.

Recommended siting of smoke or heat alarms:



Avoid Following Locations

The life of this alarm can be significantly reduced by adverse environments or incorrect location.

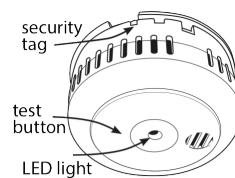
1. Do not locate near fans or extractors. These can pull or push smoke and heat away from the smoke alarms.
2. Do not install in or near high humidity areas such as showers, bathrooms or kitchens where humidity levels exceed 85% or the room temperature exceeds 40° or falls below 0°C. These may cause nuisance alarms and damage the detector.
3. Do not install in the peak of an A-frame or sloping ceiling. This may delay smoke and heat from reaching them due to the presence of dead air.
4. Do not install less than 50cm from walls and light fittings when mounted on to the ceiling.
5. Do not install in heavily infested insect areas.
6. Do not install in areas subjected to heavy concentrations of cigarette smoke that will cause nuisance alarms and the alarm to become permanently contaminated over time.
7. Do not install smoke alarms in kitchens, boiler rooms and garages where fumes and dust may cause nuisance alarms.
8. Do not install on poorly insulated walls and ceilings where cold air boundary layers could prevent smoke reaching the alarm.
9. Do not install near objects that could prevent smoke and heat reaching the alarm i.e. bookshelf.
10. Do not install within 1500mm of fluorescent light fitting that could trigger nuisance alarms when lit on and of.
11. Do not paint the alarm.

Further Details on Locations

1. At least one smoke alarm should be installed in the escape route on all floors of the building.
2. The detection element of smoke alarms should be between 2,5cm and 60cm below the ceiling, or in the case of heat alarms between 2,5cm & 15cm
3. Smoke and heat alarms should be at least 50cm from any wall or light fitting.
4. If ceiling mounting is impractical smoke alarms may be installed on walls provided that the area is no longer or wider than 10 metres and the total area does not exceed 50m² and that:
 - a. The detection element is between 15cm and 30cm below the ceiling.
 - b. The bottom of the detection element is above openings such as vents, doors and opening windows.
 - c. They are not mounted close to or above heaters or air-conditioning vents.
5. Where smoke alarms are located in a hallway, corridor or landing, the smoke alarm should be no further than three metres from any bedroom door to assist audibility behind closed doors.
6. No point on the ceiling in any room, hallway or corridor should be further than 7.5 metres from any smoke alarm.
7. Heat alarms should not be used in escape routes from the building. Where used in other areas, heat alarms should be no more than 5.5 metres from other heat or smoke alarms.
8. Do not install heat alarms in bedrooms, nurseries, playrooms or areas where the elderly and disabled may spend long periods of time alone.
9. Do not install heat alarms on walls if avoidable.
10. To give the earliest warning of a developing fire, smoke alarms should be installed in all the rooms of your home and interlinked if possible. (Other than those in point 2 of Choice and Location of Alarms above).

Installation Procedure

Do not store smoke alarms in temperatures below 5°C and above 30°C this may cause beeping and nuisance alarms when first installed. These will clear after a short time when the alarm has become acclimatised. Extended periods under these conditions will reduce the life of the alarms and invalidate the warranty. Separate the alarm from the mounting plate. The product is shipped with the battery disconnected and the mounting plate loose. If the product has been activated prior to installation, depress the small security tag, located in the side wall as shown in picture and turn the alarm anti clockwise while holding the mounting plate. Select desired location, refer to the Section above. You need to ensure surfaces do not contain hazardous materials e.g. asbestos.



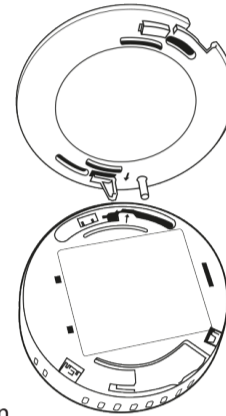
Screw fittings are suitable for use on wood, on plaster and plasterboard including concrete use screws and plug. To avoid drilling, adhesive material or adhesive pads may be

better. For certain applications, the installer may need to source own fixings. Alternatively, you may use any proprietary builders fixing adhesive normally used to fix skirting boards and other light building components to walls etc. When using the pads or adhesives make sure the surfaces are flake free, clean, dry and flat. Take care to use all appropriate Health and Safety precautions when fixing the mounting plate and the smoke alarm to their surface - in particular use appropriate access equipment, protect yourself from dust and wear eye protection. Screw the mounting base to the ceiling using the fixings provided. Line up the arrow on the back of the unit with the arrow inside the mounting plate and mount the alarm. Once the smoke alarm is in position at the mounting plate twist it clockwise until the security tag clicks in to place. The sealed in battery will be automatically switched on and the alarm powered up with an internal test.

Testing the Alarm

Warning use hearing protection !!! (85dB at 3m)
Press and release the test button. The smoke alarm should sound three times with a flashing red light and then stop. After the test, make sure that the red light flashes approximately every minute. Test the alarm once a week to ensure proper operation.

WARNING: The test button provides a full test of the alarms functionality. Do not try to test the alarm using either heat, smoke or naked flame as damage will occur to the unit.



User Information

Protect your Home Against Fire

Check out your local Fire Brigades home page for a home safety check, this information is free and will identify potential fire hazards in and around your home. It's a good guide to help your selves. Make sure all occupants of the home know what a fire alarm sounds like and what to do when:

Normal mode	Red Flashes every minute no sound	
Full alarm indicating smoke and fire	Repeating series of 3 beeps every 4 seconds with flashing light	••••••••
Low battery Level	Single beep every minute	• • • •
Test button jammed	One beep every 11 seconds	• • • •
Fault	Double beep every minute	•• •• •• ••

Preventive actions:

- Set up an escape plane and decide an assembly point in a safe area away from the building.
- Practice how to act during a real fire.
- Is there any fire fighting equipment, where and who can use it properly?
- Who is doing what? Is it possible to address different areas of responsibility? Upper, Lower...
- Don't leave candles unattended, don't handle recently put out ashes recklessly!
- Do a health check on electrical devices/cables.
- Keep matches / lighters out of reach of children.
- Do not store flammable or explosive liquids near heat sources.
- Be careful of flammable textiles/curtains near windowsills or candlelit tables.
- Please complete your fire protection with fire blanket or extinguisher.

What to Do if the Alarms Sound?

- Ensure everyone leaves the building as soon as possible. Check all areas so no one is left behind!
- Do not run nor stop to collect belongings.
- If it is safe to do so, close all windows and doors as you escape to prevent the spread of fire.
- Call the fire brigade at **SOS 112**
- Smoke is the main cause of death from fire. If trapped inside the building, cover your mouth, conserve breath and crawl near the floor to safety.
- If possible try to limit/put out the fire, but do not risk your selves or others life doing so.

Do not silence a fire alarm until you know the cause of the alarm and when all occupants are safely outside the building!

Alarm Maintenance

A regular program of fire alarm maintenance will help to keep your alarm in good working order.

- Test the alarm monthly making sure that all interconnected alarms in the system sound within 10-20 seconds.
- Vacuum the alarms every six months and wipe them with a damp cloth.
- Do not paint the alarm.
- Cover the fire detector when performing dust-

rich work, such as grinding of floor or wall rack. A smoke alarm is a sensitive life-saving device. The life of this alarm can be significantly reduced by failure to regularly clean and maintain it according to the instructions. Lack of reasonable care may also cause it to malfunction and will invalidate the warranty.

Waste

The unit has a built-in lithium battery, please dispose the device at a recycling centre, approved by the municipality, after the product's life time has expired, note the date markings on the side.

Trouble Shooting

The battery will last 10 years and is not replaceable. The life of the battery can be significantly shortened by periods of storage or use in temperatures below 5°C or above 30°C. It will also be shortened by frequent or extended periods in full alarm often caused by conditions such as cigarette smoke, steam, aerosol spray and condensation. In these circumstances the warranty will be void. At the end of its life, the smoke alarm will beep once every minute for a minimum of one month. If this happens at night you can press the test button to silence the battery warning for 10 hours. Replace the alarm as soon as possible next day.

Failures codes are indicated in five ways:

1. The alarm beeps twice every minute indicating a malfunction. (I.e. dust in detection chamber)
2. The alarm beeps once every minute indicating a low battery.
3. The full alarm sounds for no reason. (A repeating series of three beeps with flashing light)
4. The alarm does not sound when pressing the test button.

5. The test button LED-light remains steadily on or off. (I.e. does not flash approximately once every minute, when the unit is not in alarm)

Inspect for obvious damage. Check that the alarm has been installed in accordance with these instructions. In the case of repeated nuisance alarms, check that the unit it is free from dust, cobwebs and external contamination from such things as cigarette smoke, drying paint, spray from household aerosols and steam. This will ultimately shorten the life of the smoke alarm and invalidate the warranty. If this does not correct the problem, do NOT attempt to repair. There are no user serviceable parts internally. If the smoke alarm is within the warranty period and terms, indicate the nature of the problem and return the unit with proof of purchase to the address at the end of this manual. Units beyond warranty cannot be economically repaired.

Product Warranty

Deltronic Security AB guarantees to you, as a purchaser, that the enclosed Alarm will be free from defects in material, workmanship or design under normal use and service for a period of 10 years. This Guarantee is not assignable. Our liability to you, under this guarantee is limited to repairing or replacing any part which we find to be defective in material, workmanship or design, free of charge to the customer, upon sending the alarm with proof of date of purchase, postage paid to the address stated below. The terms of this guarantee will not apply in the following circumstances: If the Alarm has been modified, dismantled, contaminated, damaged, neglected or otherwise abused or altered following the date of purchase, or if it fails to operate due to incorrect siting, installation or damage caused by failure to abide by the instructions supplied. It is specifically drawn to the users attention that substantial periods in alarm will shorten the life of the Alarm, during which time the Alarm will have provided valuable protection, no claim under the guarantee will be entertained. The liability of **Deltronic Security AB**, arising from the sale of this alarm or under the terms of this guarantee shall not in any case exceed the cost of replacement of the alarm. In no case, shall **Deltronic Security AB** be liable for consequential loss or damage resulting from the failure of the alarm or the breach of this or any other guarantee, express or implied or for damage caused by failure to abide by the instructions supplied. This guarantee does not affect your statutory rights.

Deltronic

For more information or if you have any questions, you are welcome to contact Deltronic, at the following address:

Deltronic Security AB
E A Rosengrens gata 4
SE-421 31 Västra Frölunda
info@deltronic.se
www.deltronic.se
Tel: +46 (0)31-14 08 00

